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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/658,214	09/08/2003	William S. Lerner		2711
7590 09/20/2004			EXAMINER	
Steven Horowitz			PAIK, SANG YEOP	
Counselor At Low Suite 700			ART UNIT	PAPER NUMBER
295 Madison Avenue			3742	
New York, NY 10017			DATE MAILED: 09/20/200	4

Please find below and/or attached an Office communication concerning this application or proceeding.

		Λ Λ Ι				
	Application No.	Applicant(s)				
	10/658,214	LERNER, WILLIAM S.				
Office Action Summary	Examiner	Art Unit				
	Sang Y Paik	3742				
The MAILING DATE of this communication Period for Reply	appears on the cover sheet wi	ith the correspondence address				
A SHORTENED STATUTORY PERIOD FOR RETHE MAILING DATE OF THIS COMMUNICATIO - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a - If NO period for reply is specified above, the maximum statutory per - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the material patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, however, may a r reply within the statutory minimum of thir iod will apply and will expire SIX (6) MON atute, cause the application to become AE	eply be timely filed by (30) days will be considered timely. ITHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on	·					
	his action is non-final.					
closed in accordance with the practice unde	er <i>Ex parte Quayle</i> , 1935 C.D	0. 11, 453 O.G. 213.				
Disposition of Claims						
4) Claim(s) 1-46 is/are pending in the application	ion.					
4a) Of the above claim(s) is/are without	drawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-46</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and	d/or election requirement.					
Application Papers						
9)☐ The specification is objected to by the Exam	iner.					
10)⊠ The drawing(s) filed on <u>08 September 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to t	he drawing(s) be held in abeyar	nce. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the con	rection is required if the drawing	(s) is objected to. See 37 CFR 1.121(d).				
11)☐ The oath or declaration is objected to by the	Examiner. Note the attached	d Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for fore	ign priority under 35 U.S.C. §	119(a)-(d) or (f).				
a) ☐ All b) ☐ Some * c) ☐ None of:						
 Certified copies of the priority docume 	ents have been received.					
Certified copies of the priority docume	ents have been received in A	pplication No				
Copies of the certified copies of the p	riority documents have been	received in this National Stage				
application from the International Bur	, , , , , , , , , , , , , , , , , , , ,					
* See the attached detailed Office action for a	list of the certified copies not	received.				
Attachment(s)						
1) Notice of References Cited (PTO-892)		Summary (PTO-413)				
2)		s)/Mail Date nformal Patent Application (PTO-152)				
Paper No(s)/Mail Date <u>4/23/04</u> .	6) Other:	· · · · · · · · · · · · · · · · · · ·				

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-46 are rejected under 35 U.S.C. 103(a) as being unpatentable over Balderson (US 4,983,810) in view of Huesslein et al (US 5,448,036) or Plumptre (US 5,750,959).

Balderson shows a heating stove top with a smooth glass ceramic surface with a heating element surrounded by the ceramic surface, a thermochromic composition ink that is silk screen printed on a glass ceramic surface and dried to form a solid state on the surface. The thermochromic composition undergoes the color change according to the heating temperature of the surface. Balderson also shows that the composition can withstand temperature high temperature including the claimed temperature range. However, Balderson does not show that the thermochromic composition is applied in the form of a ring element or other recited various forms and shapes.

Husslein et al and Plumptre show a stove cooktop with a warning symbol in the form of a ring element to indicate that the heating surface is hot to touch. In view of Husslein et al or Plumptre, it would have been obvious to one of ordinary skill in the art to adapt Balderson with the thermochromic composition take a form of a ring element or any other shapes or indicia to create an more aesthetically appealing and cost effective forms including the recited forms and shapes.

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With respect to the plurality of heating elements, Balderson does not explicitly show such plurality, but it is well known in the art such a cooktop or cooker hops contain a plurality of heating elements.

With respect to claims 2, 16, and 30, Balderson also teaches that the thermochromic composition can be provided in various colors, and Balderson desires to create color contrast as the composition becomes responsive to the hot temperature. Thus, it would have been obvious to one of ordinary skill in the art to provide the composition sufficient similar to the background color of the surface and as it becomes hot, it would shows more contrasting colors to more effectively indicate the hot heating surface.

With respect to claims 3, 7, 9, 13, 17, 21, 23, and 27, it would also have been obvious to provide the thermochromic composition at the claimed distance or any other suitable distance as long as the thermochromic composition can effectively be thermally responsive to the heating surface to indicate the hot surface condition to forewarn the user.

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sang Y Paik whose telephone number is 703-308-1147. The examiner can normally be reached on M-F (9:00-4:00) First Friday Off.

The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Sang Y Paik Primary Examiner Art Unit 3742

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